

□**8:** P22392 BLink, Domains, Links Nucleoside diphosphate kinase B (NDK B) (NDP kinase B) (nm23-H2) (C-myc purine-binding transcription factor PUF) gi|127983|sp|P22392|NDKB HUMAN[127983] **9:** CAA53270 BLink, Domains, Links nm23H1g [Homo sapiens] gi|468542|emb|CAA53270.1|[468542] **10:** CAA35621 BLink, Domains, Links Nm23 protein [Homo sapiens] gi|35068|emb|CAA35621.1|[35068] **11:** NP 056542 BLink, Domains, Links tachykinin receptor 1 isoform short; neurokinin 1 receptor; Tachykinin receptor 1 (substance P receptor, neurokinin-1 receptor); NK-1 receptor, tachykinin 1 receptor (substance P receptor, neurokinin 1 receptor) [Homo gi|7669546|ref|NP_056542.1|[7669546] **12:** NP 001049 BLink, Domains, Links tachykinin receptor 1 isoform long; neurokinin 1 receptor; Tachykinin receptor 1 (substance P receptor; neurokinin-1 receptor); NK-1 receptor; tachykinin 1 receptor (substance P receptor, neurokinin 1 receptor) [Homo sapiens] gi|4507343|ref|NP 001049.1|[4507343] **13:** XP 488385 BLink, Links similar to Regulator of G-protein signaling 3 (RGS3) [Mus musculus] gi|51772517|ref|XP 488385.1|[51772517] **14:** XP 380045 BLink, Links PREDICTED: similar to Nucleoside diphosphate kinase, mitochondrial precursor (NDP kinase, mitochondrial) (NDK) (nm23-H4) (Nucleoside diphosphate kinase D) (NDPKD) [Homo sapiens] gi|51492856|ref|XP 380045.2|[51492856] **15:** XP 380047 BLink, Links PREDICTED: similar to Nucleoside diphosphate kinase, mitochondrial precursor (NDP kinase, mitochondrial) (NDK) (nm23-H4) (Nucleoside diphosphate kinase D) (NDPKD) [Homo sapiens] gi|51492854|ref|XP 380047.2|[51492854] **16:** NP 001001392 BLink, Domains, Links CD44 antigen isoform 5 precursor; cell surface glycoprotein CD44; Lutheran inhibitor, dominant; homing function and Indian blood group system; monoclonal antibody A3D8; antigen gp90 homing receptor; CDW44 antigen;

5

phagocytic glycoprotein I; extracellular matrix receptor-III; GP90 lymphocyte homing/adhesion receptor; heparan sulfate proteoglycan; cell adhesion molecule (CD44); hyaluronate receptor; Hermes antigen [Homo sapiens]

gi|48255943|ref|NP_001001392.1|[48255943]

17: NP 001001391

BLink, Domains, Links

CD44 antigen isoform 4 precursor; cell surface glycoprotein CD44; Lutheran inhibitor, dominant; homing function and Indian blood group system; monoclonal antibody A3D8; antigen gp90 homing receptor; CDW44 antigen; phagocytic glycoprotein I; extracellular matrix receptor-III; GP90 lymphocyte homing/adhesion receptor; heparan sulfate proteoglycan; cell adhesion molecule (CD44); hyaluronate receptor; Hermes antigen [Homo sapiens]

gi|48255941|ref|NP 001001391.1|[48255941]

18: NP 001001390

BLink, Domains, Links

CD44 antigen isoform 3 precursor; cell surface glycoprotein CD44; Lutheran inhibitor, dominant; homing function and Indian blood group system; monoclonal antibody A3D8; antigen gp90 homing receptor; CDW44 antigen; phagocytic glycoprotein I; extracellular matrix receptor-III; GP90 lymphocyte homing/adhesion receptor; heparan sulfate proteoglycan; cell adhesion molecule (CD44); hyaluronate receptor; Hermes antigen [Homo sapiens]

gi|48255939|ref|NP_001001390.1|[48255939]

19: NP 001001389

BLink, Domains, Links

CD44 antigen isoform 2 precursor; cell surface glycoprotein CD44; Lutheran inhibitor, dominant; homing function and Indian blood group system; monoclonal antibody A3D8; antigen gp90 homing receptor; CDW44 antigen; phagocytic glycoprotein I; extracellular matrix receptor-III; GP90 lymphocyte homing/adhesion receptor; heparan sulfate proteoglycan; cell adhesion molecule (CD44); hyaluronate receptor; Hermes antigen [Homo sapiens] gi|48255937|ref|NP 001001389.1|[48255937]

20: NP 000601

BLink, Domains, Links

CD44 antigen isoform 1 precursor; cell surface glycoprotein CD44; Lutheran inhibitor, dominant; homing function and Indian blood group system; monoclonal antibody A3D8; antigen gp90 homing receptor; CDW44 antigen; phagocytic glycoprotein I; extracellular matrix receptor-III; GP90 lymphocyte homing/adhesion receptor; heparan sulfate proteoglycan; cell adhesion molecule (CD44); hyaluronate receptor; Hermes antigen [Homo sapiens]

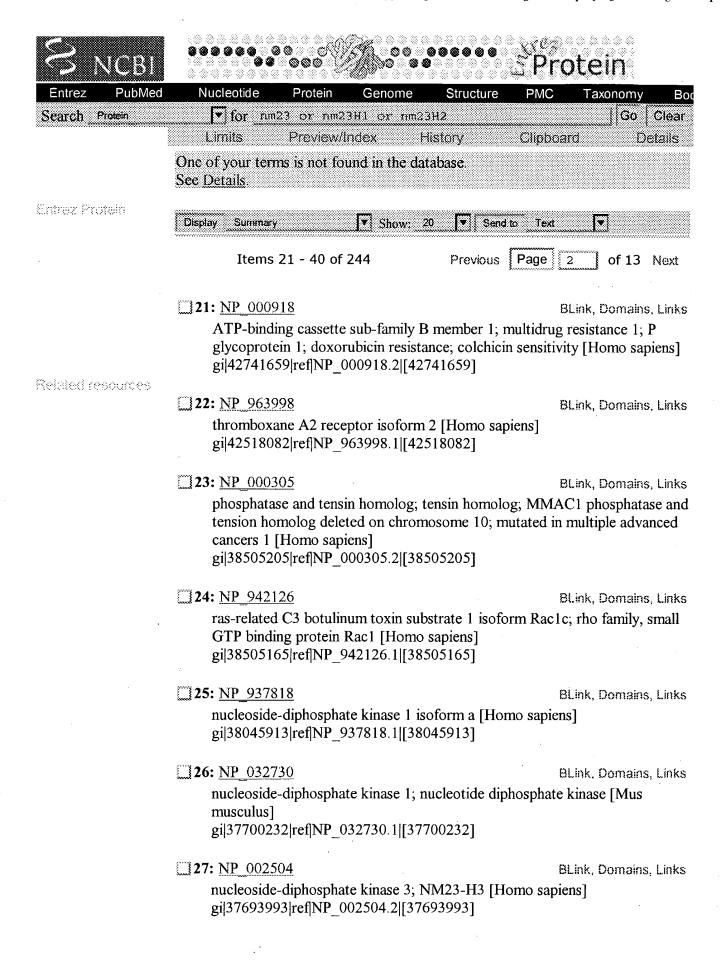
gi|48255935|ref|NP 000601.3|[48255935]

Page 1 of 13 Next

Žís	sp	ıla		í													I	*		S	1	u)	y	۷			2	0			,		*	š	e	'n	ď	t	ö	*			Ţ		đ						· · ·														
 			 	 ٠.,	 ٠.	٠.	 ٠.	 	 	 	 	 	٠.	 	٠	 	 		 							٠.	 			 	 ٠.	 	т.	•	 		•••	~	•••	•••	•••	~	_	~~	~	~	~	 •••	 	•••	•••	•••	•	•••	•	•••	••••	•	т.	•	•••	***	•		•	

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>

ag Dibbs (EBAs

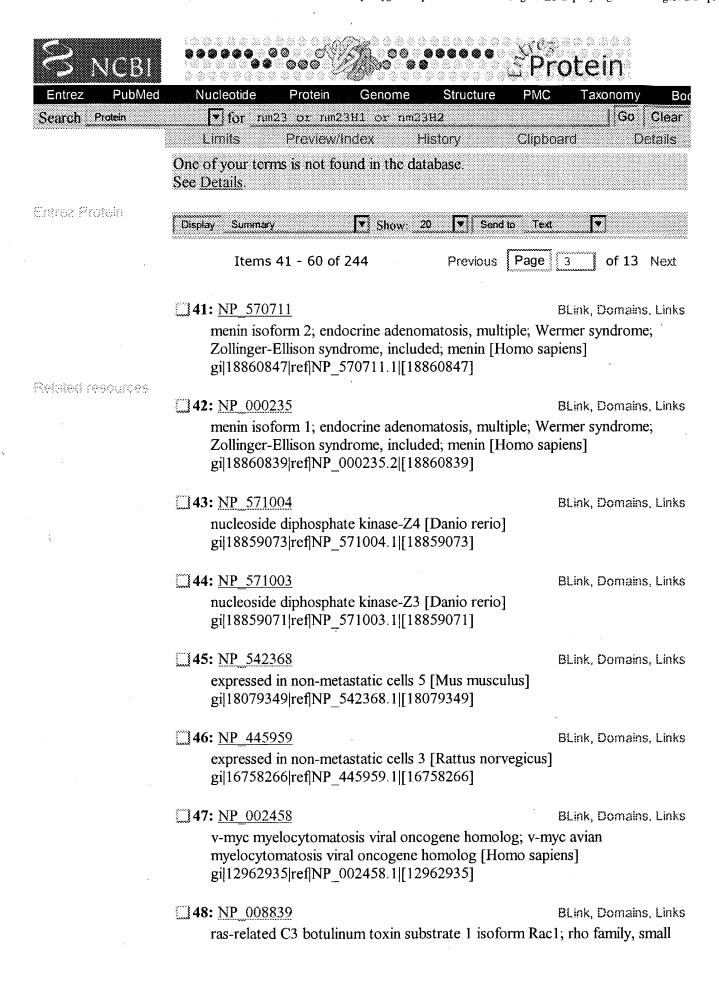


28: NP 872590 BLink, Domains, Links proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein [Homo sapiens] gi|33239451|ref|NP 872590.1|[33239451] **29:** NP 057700 BLink, Domains, Links NM23-H8; sperm-specific thioredoxin 2; thioredoxin domain-containing 3 (spermatozoa) [Homo sapiens] gi|31543836|ref|NP 057700.2|[31543836] **30:** NP 113751 BLink, Domains, Links nuclease sensitive element binding protein 1; Y box protein 1 [Rattus norvegicus] gi|31543347|ref|NP 113751.2|[31543347] **31:** NP 775482 BLink, Domains, Links PRUNEM1 [Mus musculus] gi|27597069|ref|NP 775482.1|[27597069] **32:** NP 008845 BLink, Domains, Links RAR-related orphan receptor B; retinoic acid-binding receptor beta; nuclear receptor RZR-beta, RAR-related orphan receptor beta [Homo sapiens] gi|19743907|ref|NP 008845.2|[19743907] **33:** NP 599024 BLink, Domains, Links RAR-related orphan receptor A isoform d, retinoic acid receptor-related orphan receptor alpha; transcription factor RZR-alpha; ROR-alpha; RAR-related orphan receptor alpha [Homo sapiens] gi|19743905|ref|NP 599024.1|[19743905] **34:** NP 599023 BLink, Domains, Links RAR-related orphan receptor A isoform a; retinoic acid receptor-related orphan receptor alpha, transcription factor RZR-alpha, ROR-alpha, RAR-related orphan receptor alpha [Homo sapiens] gi|19743903|ref|NP 599023.1|[19743903] **35:** NP 599022 BLink, Domains, Links RAR-related orphan receptor A isoform b; retinoic acid receptor-related orphan receptor alpha; transcription factor RZR-alpha; ROR-alpha; RAR-related orphan receptor alpha [Homo sapiens] gi|19743901|ref|NP 599022.1|[19743901] **36:** NP 570716 BLink, Domains, Links menin isoform 1; endocrine adenomatosis, multiple; Wermer syndrome; Zollinger-Ellison syndrome, included; menin [Homo sapiens] gi|18860857|ref|NP 570716.1|[18860857]

37: NP_570715	BLink, Domains, Links
menin isoform 1, endocrine adenoma Zollinger-Ellison syndrome, included gi 18860855 ref NP_570715.1 [18860	; menin [Homo sapiens]
38: <u>NP_570714</u>	BLink, Domains, Links
menin isoform 1; endocrine adenoma Zollinger-Ellison syndrome, included gi 18860853 ref NP_570714.1 [18860	; menin [Homo sapiens]
menin isoform 1; endocrine adenoma Zollinger-Ellison syndrome, included gi 18860851 ref NP_570713.1 [18860	, menin [Homo sapiens]
menin isoform 1; endocrine adenoma Zollinger-Ellison syndrome, included gi 18860849 ref NP_570712.1 [18860	menin [Homo sapiens]
Items 21 - 40 of 244	Previous Page 2 of 13 Next
Display Summary	▼ Send to Text

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

Jage 13 1995 of Bits.



GTP binding protein Rac1 [Homo sapiens] gi|9845511|ref|NP_008839.2|[9845511] **49:** NP 061485 BLink, Domains, Links ras-related C3 botulinum toxin substrate 1 isoform Rac1b; rho family, small GTP binding protein Rac1 [Homo sapiens] gi|9845509|ref|NP 061485.1|[9845509] **50:** NP 062705 BLink, Domains, Links nucleoside diphosphate kinase 4; nucleoside diphosphate kinase [Mus musculus] gi|9790123|ref|NP 062705.1|[9790123] **51:** NP 062704 BLink, Domains, Links nucleoside diphosphate kinase DR-nm23 [Mus musculus] gi|9790121|ref|NP 062704.1|[9790121] **52:** <u>NP 061227</u> BLink, Domains, Links expressed in non-metastatic cells 6, protein; nucleoside diphosphate kinase type 6; nm23/nucleoside diphosphate kinase 6; expressed in non-metastatic cells 6, protein (nucleoside diphosphate kinase) [Mus musculus] gi|9055290|ref|NP 061227.1|[9055290] **53:** NP 000537 BLink, Domains, Links tumor protein p53 [Homo sapiens] gi|8400738|ref|NP 000537.2|[8400738] **54:** NP 038599 BLink, Domains, Links kinase suppressor of ras [Mus musculus] gi|7305215|ref|NP 038599.1|[7305215] **55:** NP 032731 BLink, Domains, Links nucleoside-diphosphate kinase 2; nucleoside diphosphate kinase B [Mus musculus] gi|6679078|ref|NP 032731.1|[6679078] **56:** NP 006370 BLink, Domains, Links semaphorin 3C; semaphorin E [Homo sapiens] gi|5454048|ref|NP 006370.1|[5454048] **57:** NP 005000 BLink, Domains, Links nucleoside-diphosphate kinase 4 [Homo sapiens] gi|4826862|ref|NP 005000.1|[4826862] **58:** NP 004439 BLink, Domains, Links v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog; Avian erythroblastic

homolog) [Homo sapiens]
gi|4758298|ref|NP_004439.1|[4758298]

BLink, Domains, Links
nucleoside-diphosphate kinase 1 isoform b [Homo sapiens]
gi|4557797|ref|NP_000260.1|[4557797]

BLink, Domains, Links
thromboxane A2 receptor isoform 2 [Homo sapiens]
gi|4507381|ref|NP_001051.1|[4507381]

leukemia viral (v-erb-b2) oncogene homolog 2; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene

Items 41 - 60 of 244

Summary

Display

Previous Page 3 of 13 Next

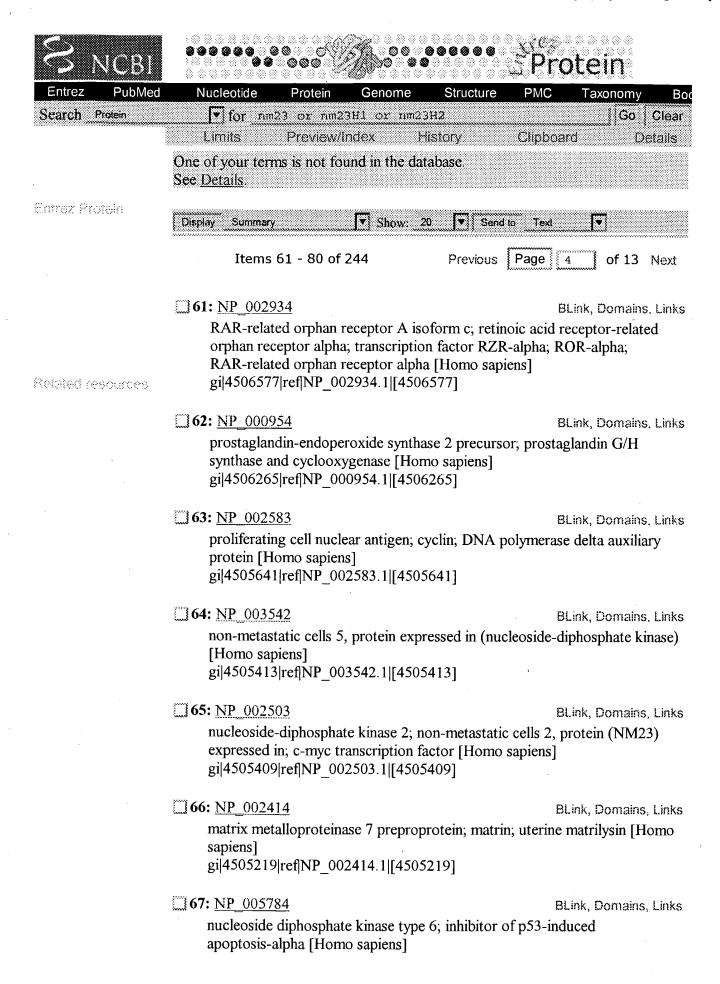
▼ Send to

<u>Disclaimer</u> | Write to the Help Desk

NCBI | NLM | NIH

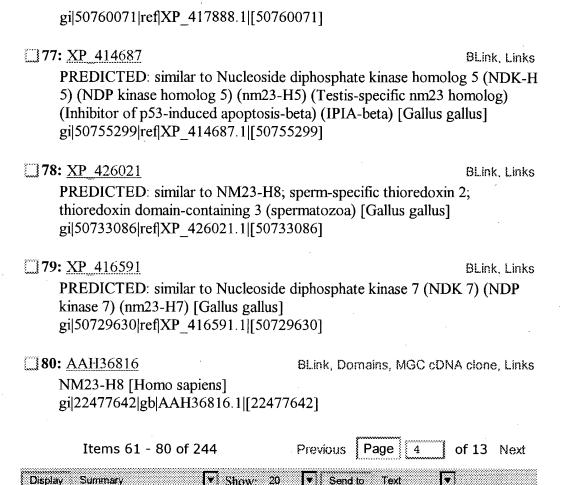
▼ Show: 20

No. 4. THE PERSON SHAPE RESERVED.



gi|5031951|ref|NP 005784.1|[5031951] **68:** NP 067045 BLink, Domains, Links TcD37 homolog; prune [Homo sapiens] gi|24308263|ref|NP 067045.1|[24308263] **69:** <u>NP 006401</u> BLink, Domains, Links HIV-1 Tat interactive protein 2, 30kDa, Tat-interacting protein (30kD); HIV-1 Tat interactive protein 2, 30 kDa; HIV-1 Tat interactive protein 2, 30 kD [Homo sapiens] gi|20127503|ref|NP 006401.2|[20127503] **70:** NP 002408 BLink, Domains, Links antigen identified by monoclonal antibody Ki-67; Proliferation-related Ki-67 antigen [Homo sapiens] gi|19923217|ref|NP 002408.2|[19923217] BLink, Domains, Links **71:** NP 112316 matrix metalloproteinase 2 (72 KDa type IV collagenase); gelatinase A [Rattus norvegicus] gi|13591991|ref|NP 112316.1|[13591991] **72:** NP 006656 BLink, Domains, Links heparanase; heparanase-1 [Homo sapiens] gi|5729873|ref|NP 006656.1|[5729873] **73:** XP 377976 BLink, Links PREDICTED: similar to Nucleoside diphosphate kinase, mitochondrial precursor (NDP kinase, mitochondrial) (NDK) (nm23-H4) (Nucleoside diphosphate kinase D) (NDPKD) [Homo sapiens] gi|51466625|ref|XP 377976.2|[51466625] **74:** EAL24027 BLink, Links similar to Nucleoside diphosphate kinase, mitochondrial precursor (NDP kinase, mitochondrial) (NDK) (nm23-M4) (Nucleoside diphosphate kinase D) [Homo sapiens] gi|51094781|gb|EAL24027.1|[51094781] **75:** XP 424348 BLink, Links PREDICTED: similar to Nucleoside diphosphate kinase homolog 5 (NDK-H 5) (NDP kinase homolog 5) (nm23-H5) (Testis-specific nm23 homolog) (Inhibitor of p53-induced apoptosis-beta) (IPIA-beta) [Gallus gallus] gi|50805547|ref|XP 424348.1|[50805547] **76:** XP 417888 BLink, Links PREDICTED: similar to nm23-phosphorylated unknown substrate; SH3

domain-containing 70 kDa protein [Gallus gallus]



<u>Disclaimer</u> | Write to the Help Desk NCBI | NLM | NIH

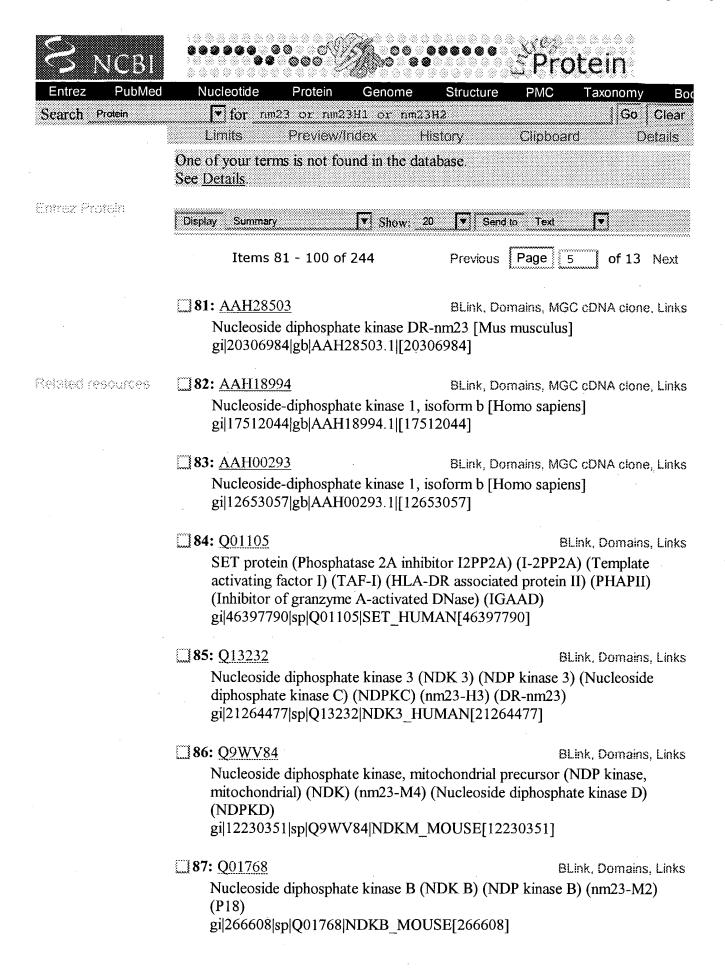
▼ Send to

Text

Show: 20

Display

Summary

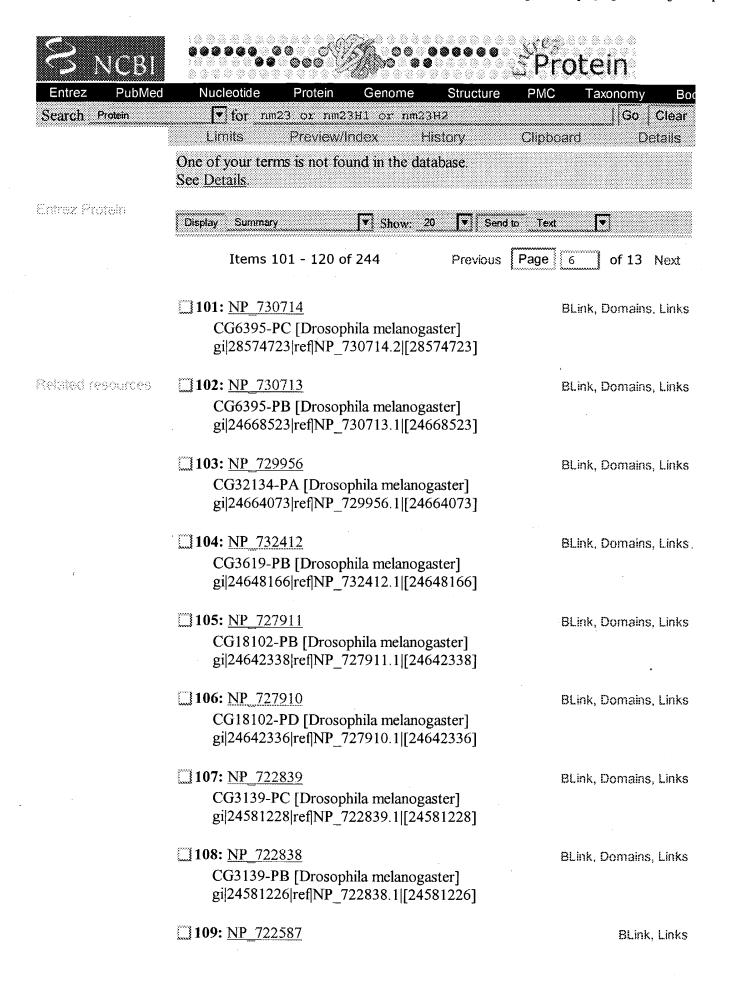


88: P15532 BLink, Domains, Links Nucleoside diphosphate kinase A (NDK A) (NDP kinase A) (Tumor metastatic process-associated protein) (Metastasis inhibition factor NM23) (NDPK-A) (nm23-M1) gi|127982|sp|P15532|NDKA MOUSE[127982] **396235** BLink, Domains, Links similar to Nucleoside diphosphate kinase 7 (NDK 7) (NDP kinase 7) (nm23-R7) [Apis mellifera] gi|48109475|ref|XP 396235.1|[48109475] **90:** XP 396140 BLink, Domains, Links similar to Nucleoside diphosphate kinase 6 (NDK 6) (NDP kinase 6) (nm23-H6) (Inhibitor of p53-induced apoptosis-alpha) (IPIA-alpha) [Apis mellifera] gi|48106672|ref|XP 396140.1|[48106672] **91:** XP 394702 BLink, Domains, Links similar to Nucleoside diphosphate kinase homolog 5 (NDK-H 5) (NDP kinase homolog 5) (nm23-H5) (Testis-specific nm23 homolog) (Inhibitor of p53-induced apoptosis-beta) (IPIA-beta) [Apis mellifera] gi|48096513|ref|XP 394702.1|[48096513] **92:** XP 394464 BLink, Domains, Links similar to multiple endocrine neoplasia type 1 [Apis mellifera] gi|48095533|ref|XP 394464.1|[48095533] **93: Q**9WV85 BLink, Domains, Links Nucleoside diphosphate kinase 3 (NDK 3) (NDP kinase 3) (Nucleoside diphosphate kinase C) (NDPKC) (nm23-M3) (DR-nm23) gi|48429268|sp|Q9WV85|NDK3 MOUSE[48429268] **94:** AAH02664 BLink, Domains, Links MEN1 protein [Homo sapiens] gi|38197214|gb|AAH02664.2|[38197214] **95:** AAH33449 BLink, Domains, MGC cDNA clone, Links Rgs3 protein [Mus musculus] gi|23270966|gb|AAH33449.1|[23270966] **96:** NP 996468 BLink, Domains, Links CG18102-PA [Drosophila melanogaster] gi|45555521|ref|NP 996468.1|[45555521] **□97:** NP 996467 BLink, Domains, Links CG18102-PE [Drosophila melanogaster] gi|45555505|ref|NP 996467.1|[45555505]

98: NP_996466 CG18102-PF [Drosophila melanogas gi 45555485 ref NP_996466.1 [4555	••
99: NP_996465 CG18102-PG [Drosophila melanogas gi 45555473 ref NP_996465.1 [45555	_
CG3139-PD [Drosophila melanogast gi 45552193 ref NP_995619.1 [45552	
Items 81 - 100 of 244	Previous Page 5 of 13 Next
Display Summary ▼ Show 20	▼ Send to Text ▼

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

orp 11 1996 i i Beldi



CG2671-PF [Drosophila melanogaster] gi|24580507|ref|NP_722587.1|[24580507]

110: <u>NP 722586</u> BLink, Links CG2671-PE [Drosophila melanogaster] gi|24580505|ref|NP 722586.1|[24580505] 111: NP 722585 BLink, Links CG2671-PD [Drosophila melanogaster] gi|24580503|ref|NP 722585.1|[24580503] **112:** NP 722584 BLink, Links CG2671-PA [Drosophila melanogaster] gi|24464586|ref|NP_722584.1|[24464586] **113:** NP 722583 BLink, Links CG2671-PB [Drosophila melanogaster] gi|24464584|ref|NP_722583.1|[24464584] **114:** NP 523485 BLink, Domains, Links CG7234-PI [Drosophila melanogaster] gi|45549153|ref|NP 523485.3|[45549153] **115:** NP 476761 BLink, Domains, Links CG2210-PA [Drosophila melanogaster] gi|45549037|ref|NP 476761.2|[45549037] **116:** NP 523872 BLink, Domains, Links CG6883-PA [Drosophila melanogaster] gi|24654763|ref|NP 523872.2|[24654763] **117:** NP 523371 BLink, Domains, Links CG9907-PA [Drosophila melanogaster] gi|24642537|ref|NP 523371.2|[24642537] **118:** NP 524853 BLink, Domains, Links CG18102-PC [Drosophila melanogaster] gi|24642340|ref|NP 524853.2|[24642340] **119:** NP 511119 BLink, Domains, Links CG1594-PA [Drosophila melanogaster] gi|24641273|ref|NP 511119.2|[24641273] **120:** NP 476859 BLink, Domains, Links CG3936-PA [Drosophila melanogaster]

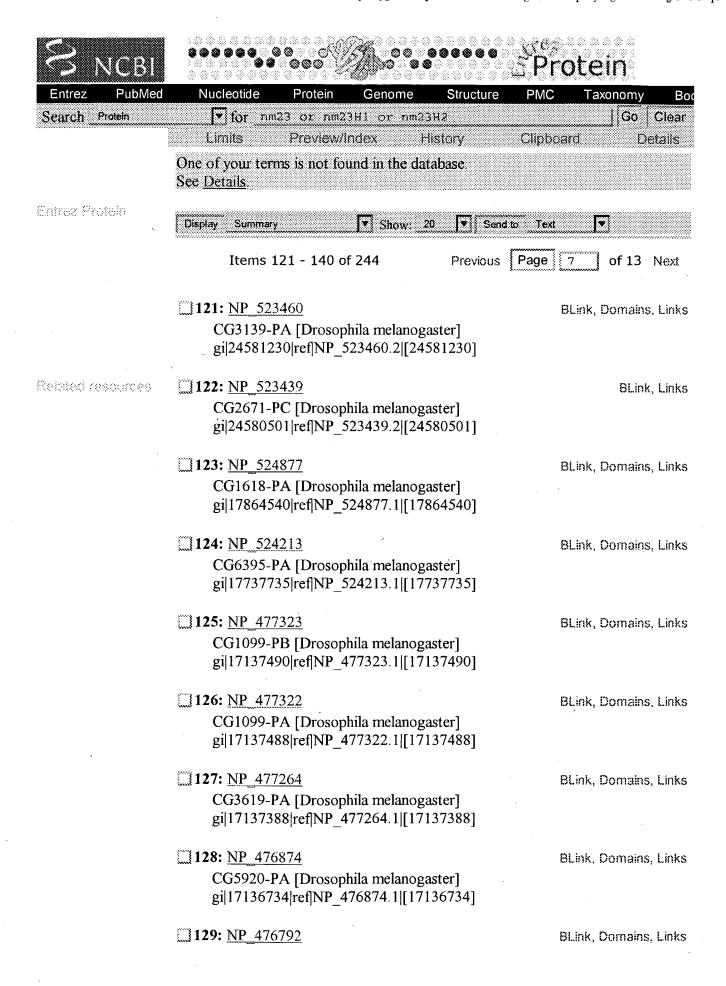
gi|24639454|ref|NP_476859.2|[24639454]

 Items 101 - 120 of 244
 Previous
 Page 6 of 13 Next

 Display
 Summary
 ▼ Show: 20 ▼ Send to Text
 ▼

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

No. 24 764 LSC 041



CG3757-PA [Drosophila melanogaster] gi|17136600|ref|NP 476792.1|[17136600] **130:** NP 476759 BLink, Domains, Links CG10079-PB [Drosophila melanogaster] gi|17136536|ref|NP 476759.1|[17136536] **131:** NP 476758 BLink, Domains, Links CG10079-PA [Drosophila melanogaster] gi|17136534|ref|NP_476758.1|[17136534] **132:** NP 476684 BLink, Domains, Links CG3461-PA [Drosophila melanogaster] gi|17136406|ref|NP 476684.1|[17136406] **133:** Q05982 BLink, Domains, Links Nucleoside diphosphate kinase A (NDK A) (NDP kinase A) (Tumor metastatic process-associated protein) (Metastasis inhibition factor NM23) gi|462690|sp|Q05982|NDKA RAT[462690] **134:** BAC39392 BLink, Domains, Links unnamed protein product [Mus musculus] gi|26351511|dbj|BAC39392.1|[26351511] **135:** BAB30896 BLink, Domains, Links unnamed protein product [Mus musculus] gi|12857112|dbj|BAB30896.1|[12857112] **136:** BAB27708 BLink, Links unnamed protein product [Mus musculus] gi|12847786|dbj|BAB27708.1|[12847786] **137:** NP 173184 BLink, Domains, Links nucleoside diphosphate kinase family protein [Arabidopsis thaliana] gi|42562123|ref|NP 173184.2|[42562123] **138:** 075414 BLink; Domains, Links Nucleoside diphosphate kinase 6 (NDK 6) (NDP kinase 6) (nm23-H6) (Inhibitor of p53-induced apoptosis-alpha) (IPIA-alpha) gi|12232627|sp|O75414|NDK6 HUMAN[12232627] **139:** NP 508832 BLink, Domains, Links nm23-phosphorylated substrate (XF511) [Caenorhabditis elegans] gi|17569663|ref|NP 508832.1|[17569663] **140:** AAQ77892 BLink, Links

Sequence 5 from patent US 6329198

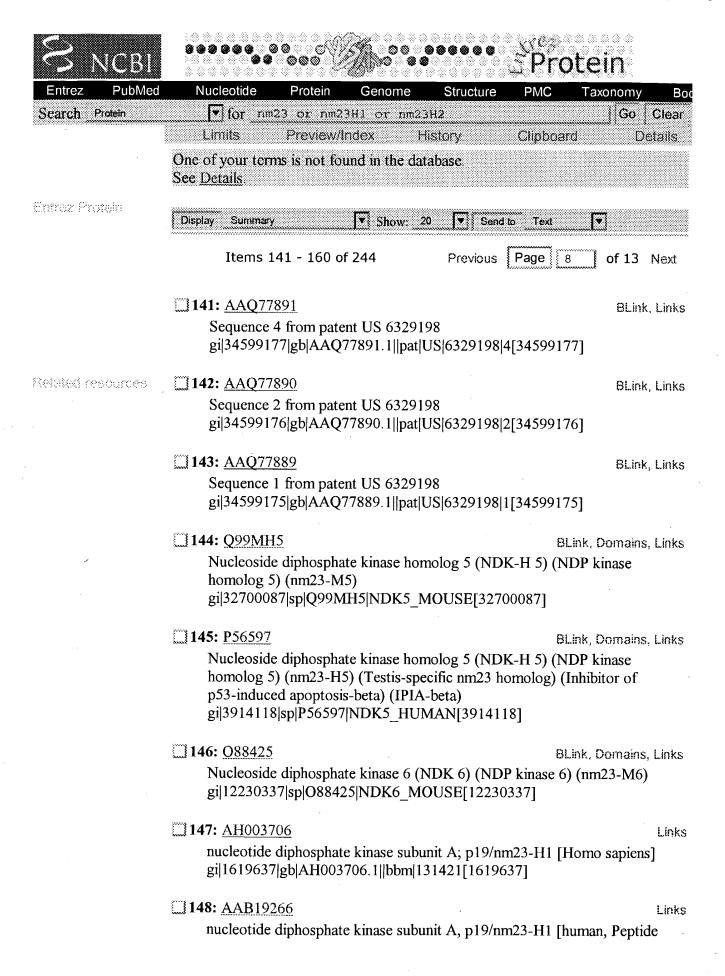
gi|34599178|gb|AAQ77892.1||pat|US|6329198|5[34599178]

 Items 121 - 140 of 244
 Previous
 Page
 7
 of 13
 Next

 Display
 Summary
 Show
 20
 ▼ Send to
 Text
 ▼

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

Supplies of the American



Partial, 6 aa, segment 3 of 3] gi|232476|gb|AAB19266.1||bbs|38818[232476] **149:** AAB19265 Links No definition line found gi|232475|gb|AAB19265.1||bbs|38817[232475] **150:** AAB19264 Links nucleotide diphosphate kinase subunit A, p19/nm23-H1 [human, Peptide Partial, 10 aa, segment 2 of 3] gi|232474|gb|AAB19264.1||bbs|38815[232474] **151:** AAB19263 Links No definition line found gi|232473|gb|AAB19263.1||bbs|38813[232473] **□152:** AAB19262 Links nucleotide diphosphate kinase subunit A, p19/nm23-H1 [human, Peptide Partial, 12 aa, segment 1 of 3] gi|232472|gb|AAB19262.1||bbs|38811[232472] **153:** AAO85436 BLink, Domains, Links NM23-H1 [Homo sapiens] gi|29468184|gb|AAO85436.1|AF487339 1[29468184] **154:** AAC95290 BLink, Domains, Links PRUNE-like protein [Homo sapiens] gi|4007408|gb|AAC95290.1|[4007408] **□155:** <u>1JXVF</u> BLink, Domains, Links Chain F, Crystal Structure Of Human Nucleoside Diphosphate Kinase A gi|20663972|pdb|1JXV|F[20663972] **156:** 1JXVE BLink, Domains, Links Chain E, Crystal Structure Of Human Nucleoside Diphosphate Kinase A gi|20663971|pdb|1JXV|E[20663971] **157:** 1JXVD BLink, Domains, Links Chain D, Crystal Structure Of Human Nucleoside Diphosphate Kinase A gi|20663970|pdb|1JXV|D[20663970] **158:** 1JXVC BLink, Domains, Links Chain C, Crystal Structure Of Human Nucleoside Diphosphate Kinase A gi|20663969|pdb|1JXV|C[20663969] BLink, Domains, Links

Chain B, Crystal Structure Of Human Nucleoside Diphosphate Kinase A

gi|20663968|pdb|1JXV|B[20663968]

160: 1JXVA

BLink, Domains, Links

Chain A, Crystal Structure Of Human Nucleoside Diphosphate Kinase A gi|20663967|pdb|1JXV|A[20663967]

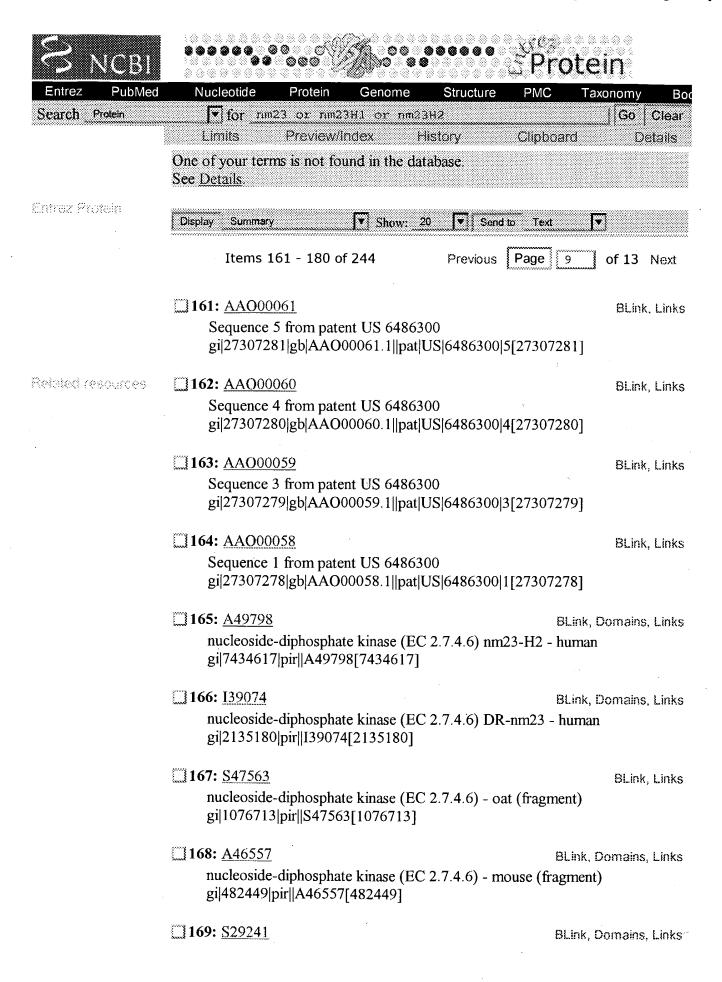
Items 141 - 160 of 244

Previous Page 8 of 13 Next

Display Summary ▼ Show: 20 ▼ Send to Text ▼

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>

Star Sta MARLES (CHE)



nucleoside-diphosphate kinase (EC 2.7.4.6) B - mouse gi|478765|pir||S29241[478765]

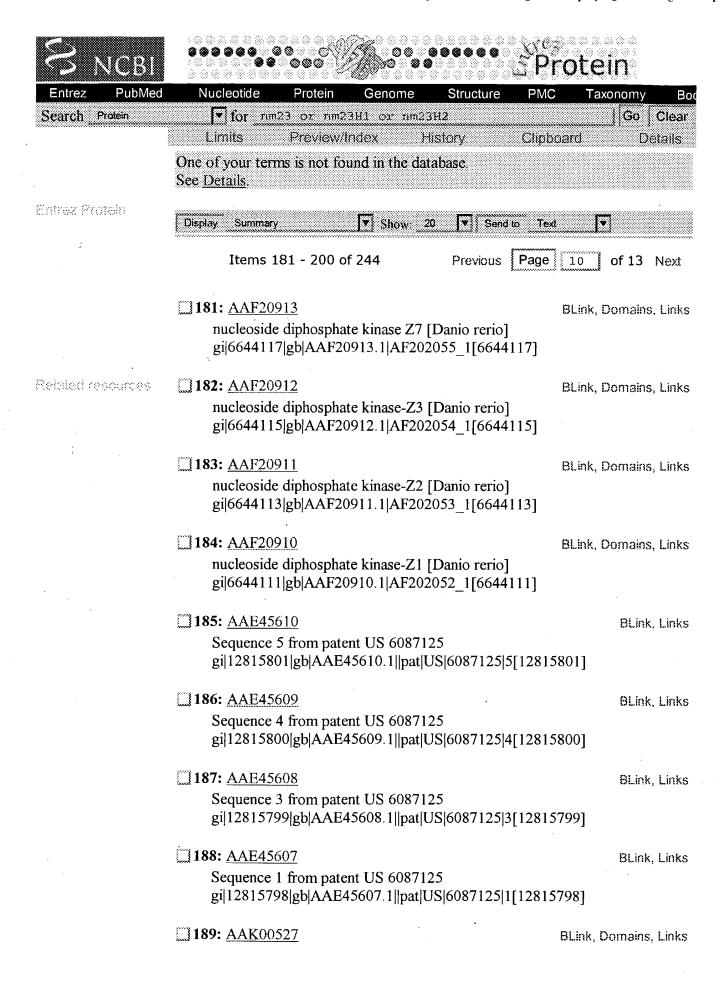
170: A33386 BLink, Domains, Links nucleoside-diphosphate kinase (EC 2.7.4.6) nm23-H1g - human gi|88268|pir||A33386[88268] **171:** AAG02202 BLink, Domains, Links nucleoside diphosphate kinase D [Mus musculus] gi|9931518|gb|AAG02202.1|AF288692 1[9931518] **172:** AAG02201 BLink, Domains, Links nucleoside diphosphate kinase C [Mus musculus] gi|9931516|gb|AAG02201.1|AF288691 1[9931516] **173:** AAG02200 BLink, Domains, Links nucleoside diphosphate kinase D [Mus musculus] gi|9931514|gb|AAG02200.1|AF288690 1[9931514] **174:** AAG02199 BLink, Domains, Links nucleoside diphosphate kinase C [Mus musculus] gi|9931512|gb|AAG02199.1|AF288689 1[9931512] **175:** AAN23827 BLink, Links Sequence 3 from patent US 6423836 gi|23325147|gb|AAN23827.1||pat|US|6423836|3[23325147] **176:** AAN23826 Bl.ink, Links Sequence 1 from patent US 6423836 gi|23325146|gb|AAN23826.1||pat|US|6423836|1[23325146] **177:** O88426 BLink, Domains, Links Nucleoside diphosphate kinase 6 (NDK 6) (NDP kinase 6) (nm23-R6) gi|12230330|sp|088426|NDK6 RAT[12230330] **178:** AAL16953 BLink, Domains, Links nm23-phosphorylated unknown substrate [Homo sapiens] gi|16304176|gb|AAL16953.1|AF425252 1[16304176] **179:** <u>AAF74448</u> BLink, Domains, Links nucleoside diphosphate kinase NDPK-Z6 [Danio rerio] gi|8308035|gb|AAF74448.1|AF241153 1[8308035] **180:** AAF60971 BLink, Domains, Links nuclease diphosphate kinase B [Danio rerio] gi|7339840|gb|AAF60971.1|AF201764 1[7339840]

 Items 161 - 180 of 244
 Previous
 Page
 9
 of 13
 Next

 Display
 Summary
 ▼ Show: 20
 ▼ Send to Text
 ▼

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

Swist Year Lar U. H.



nucleoside diphosphate kinase A [Cavia porcellus] gi|12700713|gb|AAK00527.1|[12700713]

1	90: <u>AAG54075</u>	BLink, Domains, Links
	nucleoside diphosphate kinase DR-nm23 [Rattus norve gi 12621064 gb AAG54075.1 [12621064]	egicus]
1	91: <u>AAG14350</u>	BLink, Domains, Links
	putative oncoprotein nm23 [Ictalurus punctatus] gi 10180968 gb AAG14350.1 AF283993_1[10180968]	
1	92: <u>1EHWB</u>	BLink, Domains, Links
	Chain B, Human Nucleoside Diphosphate Kinase 4 gi 8569509 pdb 1EHW B[8569509]	
1	93: <u>1EHWA</u>	BLink, Domains, Links
	Chain A, Human Nucleoside Diphosphate Kinase 4 gi 8569508 pdb 1EHW A[8569508]	
1	94: <u>P70011</u>	BLink, Domains, Links
	NUCLEOSIDE DIPHOSPHATE KINASE A2 (NDK A2) (NM23/NUCLEOSIDE DIPHOSPHATE KINAS gi 6225752 sp P70011 NDK2_XENLA[6225752]	
19	95: <u>P70010</u>	BLink, Domains, Links
	NUCLEOSIDE DIPHOSPHATE KINASE A1 (NDK A1) (NM23/NUCLEOSIDE DIPHOSPHATE KINAS: gi 6225751 sp P70010 NDK1_XENLA[6225751]	
19	96: <u>AAF64467</u>	BLink, Domains, Links
,	type 6 nucleoside diphosphate kinase [Drosophila mela gi 7595825 gb AAF64467.1 AF241151_1[7595825]	nogaster]
]]19	97: <u>AAF20909</u>	BLink, Domains, Links
	NM23-H8 [Homo sapiens] gi 7580490 gb AAF20909.2 AF202051_1[7580490]	- · · · · · · · · · · · · · · · · · · ·
19	98: <u>AAD34622</u>	BLink, Domains, Links
	nm23-H7 [Homo sapiens] gi 4960169 gb AAD34622.1 AF153191_1[4960169]	
]19	99: <u>AAF20908</u>	BLink, Domains, Links
	nmdyn-D7 [Drosophila melanogaster] gi 6644107 gb AAF20908.1 AF202050_1[6644107]	
]]2 (00: <u>AAF20907</u>	BLink, Domains, Links
	NM23-R7 [Rattus norvegicus]	

$gi|6644105|gb|AAF20907.1|AF202049_1[6644105]$

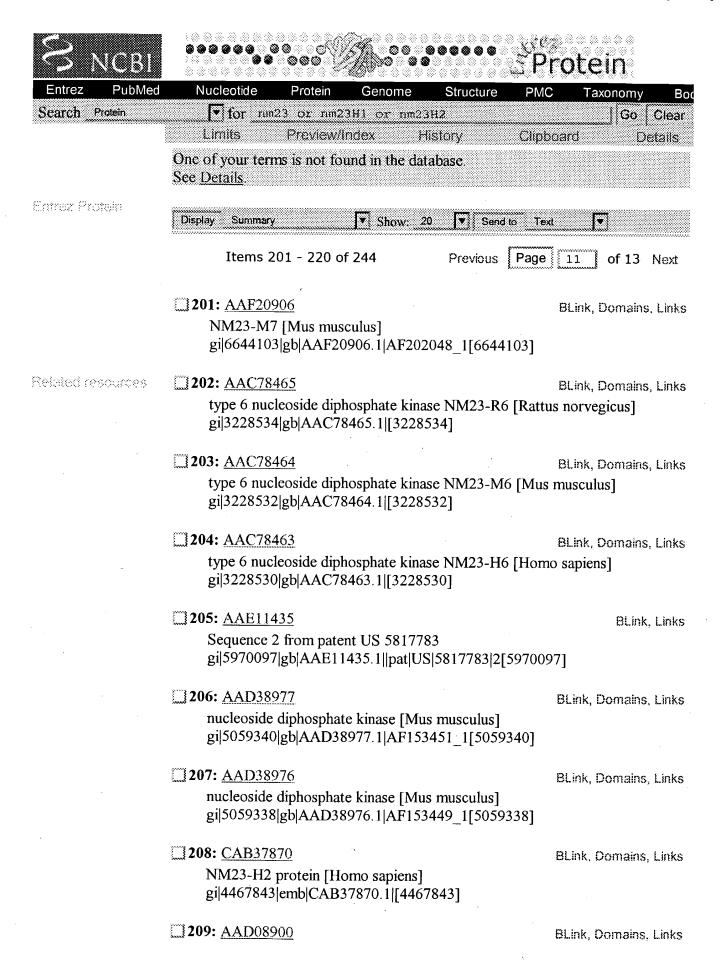
Items 181 - 200 of 244

Previous Page 10 of 13 Next

Display Summary Show 20 🔻 Send to Text

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>

Naprill product a series



nucleoside diphosphate kinase; NDP kinase [Scyliorhinus torazame] gi|4176739|gb|AAD08900.1|[4176739] **210:** AAC64358 BLink, Domains, Links nm23-H5 [Homo sapiens] gi|3220239|gb|AAC64358.1|[3220239] **211:** AAC44154 BLink, Domains, Links Ndk gi|1353658|gb|AAC44154.1|[1353658] **212:** CAA75226 BLink, Domains, Links nucleoside-diphosphate kinase [Homo sapiens] gi|3559927|emb|CAA75226.1|[3559927] **213:** 1NUEF BLink, Domains, Links Chain F, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: A, B, C, D, E, F; Ec: 2.7.4.6 gi|1421614|pdb|1NUE|F[1421614] **214:** 1NUEE BLink, Domains, Links Chain E, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1: Molecule: Nucleoside Diphosphate Kinase; Chain: A, B, C, D, E, F; Ec: 2.7.4.6 gi|1421613|pdb|1NUE|E[1421613] **215:** INUED BLink, Domains, Links Chain D, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: A, B, C, D, E, F; Ec: 2.7.4.6 gi|1421612|pdb|1NUE|D[1421612] **216:** 1NUEC BLink, Domains, Links Chain C, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: A, B, C, D, E, F; Ec: 2.7.4.6 gi|1421611|pdb|1NUE|C[1421611] **217:** 1NUEB BLink, Domains, Links Chain B, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: A, B, C, D, E, F; Ec: gi|1421610|pdb|1NUE|B[1421610] **218:** <u>1NUEA</u> BLink, Domains, Links

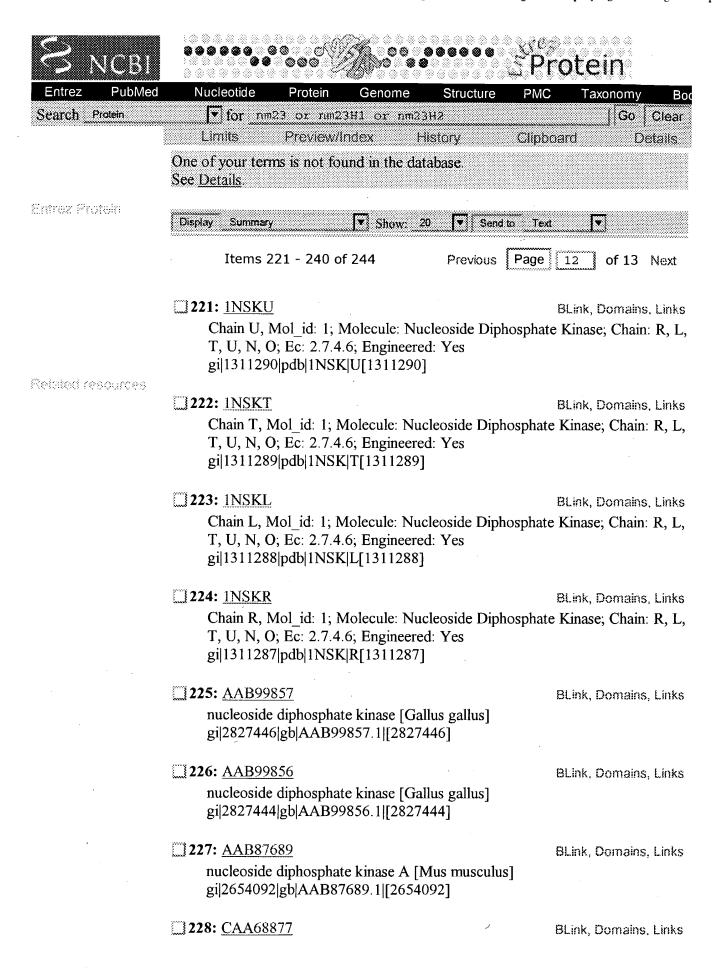
Chain A, Nucleoside Triphosphate, Nucleoside Diphosphate Mol id: 1;

gi|1421609|pdb|1NUE|A[1421609] **219:** <u>1NSKO</u> BLink, Domains, Links Chain O, Mol_id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: R, L, T, U, N, O; Ec: 2.7.4.6; Engineered: Yes gi|1311292|pdb|1NSK|0[1311292] **220:** 1NSKN BLink, Domains, Links Chain N, Mol_id: 1; Molecule: Nucleoside Diphosphate Kinase; Chain: R, L, T, U, N, O; Ec: 2.7.4.6; Engineered: Yes gi|1311291|pdb|1NSK|N[1311291] Items 201 - 220 of 244 Previous Page of 13 Next 11 ▼ Show: 20 Display ▼ Send to Text

Molecule: Nucleoside Diphosphate Kinase, Chain: A, B, C, D, E, F, Ec:

2.7.4.6

Disclaimer | Write to the Help Desk NCBI | NLM | NIH



nucleoside-diphosphate kinase [Homo sapiens] gi|1945762|emb|CAA68877.1|[1945762]

229: AAB42080 BLink, Domains, Links nucleoside diphosphate kinase A long form [Mus musculus] gi|1816594|gb|AAB42080.1|[1816594] **230:** CAA66475 BLink, Domains, Links NM23/nucleoside diphosphate kinase [Xenopus laevis] gi|1655710|emb|CAA66475.1|[1655710] **231:** CAA66476 BLink, Domains, Links NM23/nucleoside diphosphate kinase [Xenopus laevis] gi|1655708|emb|CAA66476.1|[1655708] **232:** CAA66474 BLink, Domains, Links NM23/nucleoside diphosphate kinase [Xenopus laevis] gi|1655706|emb|CAA66474.1|[1655706] **233:** CAA66473 BLink, Domains, Links NM23/nucleoside diphosphate kinase [Xenopus laevis] gi|1655704|emb|CAA66473.1|[1655704] **234:** CAA48275 BLink, Domains, Links nucleoside diphosphate kinase B [Mus musculus] gi|53354|emb|CAA48275.1|[53354] **235:** AAB31385 BLink, Links nucleoside diphosphate kinase, NDPK=Nm23 protein homolog {N-terminal} {EC 2.7.4.6} [Avena sativa=oats, Garry, Peptide Partial, 24 aa] gi|619331|gb|AAB31385.1||bbm|346701|bbs|152843[619331] **236:** <u>1516349</u>B BLink, Domains, Links nm23 gene gi|226527|prf||1516349B[226527] **237:** <u>1516349A</u> BLink, Domains, Links nm23 gene gi|226526|prf||1516349A[226526] **238:** CAA51527 BLink, Domains, Links NM23H1 [Homo sapiens] gi|312824|emb|CAA51527.1|[312824] **239:** AAA86745 BLink, Links

nucleoside diphosphate kinase B gi|924935|gb|AAA86745.1|[924935]

240: <u>AAA85097</u>

BLink, Domains, Links

DR-nm23 gene product gi|1051256|gb|AAA85097.1|[1051256]

Items 221 - 240 of 244

244 Previous Page 12 of 13 Next

▼ Show 20 ▼ Send to Text ▼

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>

original representations

```
File
       5:Biosis Previews(R) 1969-2004/Sep W4
         (c) 2004 BIOSIS
 File
         6:NTIS 1964-2004/Sep W4
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
         8:Ei Compendex(R) 1970-2004/Sep W3
  File
         (c) 2004 Elsevier Eng. Info. Inc.
       34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W4
  File
         (c) 2004 Inst for Sci Info
  File
       65:Inside Conferences 1993-2004/Sep W4
         (c) 2004 BLDSC all rts. reserv.
       71:ELSEVIER BIOBASE 1994-2004/Sep W3
  File
         (c) 2004 Elsevier Science B.V.
       73:EMBASE 1974-2004/Sep W4
  File
         (c) 2004 Elsevier Science B.V.
        94: JICST-EPlus 1985-2004/Aug W5
  File
         (c) 2004 Japan Science and Tech Corp (JST)
        98:General Sci Abs/Full-Text 1984-2004/Aug
         (c) 2004 The HW Wilson Co.
  File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Aug
         (c) 2004 The HW Wilson Co.
  File 135: NewsRx Weekly Reports 1995-2004/Sep W4
         (c) 2004 NewsRx
*File 135: New newsletters are now added. See Help News135 for the
complete list of newsletters.
  File 143:Biol. & Agric. Index 1983-2004/Aug
         (c) 2004 The HW Wilson Co
  File 144: Pascal 1973-2004/Sep W3
         (c) 2004 INIST/CNRS
  File 155:MEDLINE(R) 1951-2004/Sep W4
         (c) format only 2004 The Dialog Corp.
*File 155: Medline has been reloaded. Accession numbers
have changed. Please see HELP NEWS 154 for details.
  File 172:EMBASE Alert 2004/Sep W3
         (c) 2004 Elsevier Science B.V.
  File 266:FEDRIP 2004/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
  File 315: ChemEng & Biotec Abs 1970-2004/Sep
         (c) 2004 DECHEMA
  File 357: Derwent Biotech Res. _1982-2004/Sep W4
         (c) 2004 Thomson Derwent & ISI
  File 358: Current BioTech Abs 1983-2004/Sep
         (c) 2004 DECHEMA
  File 369: New Scientist 1994-2004/Sep W3
         (c) 2004 Reed Business Information Ltd.
  File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
*File 370: This file is closed (no updates). Use File 47 for more current
information.
  File 399:CA SEARCH(R) 1967-2004/UD=14114
         (c) 2004 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
  File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
        40:Enviroline(R) 1975-2004/Aug
  File
  File 50:CAB Abstracts 1972-2004/Aug
         (c) 2004 CAB International
  File 103: Energy SciTec 1974-2004/Aug B2
         (c) 2004 Contains copyrighted material
*File 103: For access restrictions see Help Restrict.
  File 156:ToxFile 1965-2004/Sep W4
         (c) format only 2004 The Dialog Corporation
*File 156: ToxFile now reloaded with 2004 MeSH.
Enter Help News156 for more information.
  File 162:Global Health 1983-2004/Aug
         (c) 2004 CAB International
  File 305: Analytical Abstracts 1980-2004/Sep W4
```

```
(c) 2004 Royal Soc Chemistry
*File 305: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
 File 35:Dissertation Abs Online 1861-2004/Aug
         (c) 2004 ProQuest Info&Learning
.File 48:SPORTDiscus 1962-2004/Sep
         (c) 2004 Sport Information Resource Centre
 File 91:MANTIS(TM) 1880-2004/Sep
        2001 (c) Action Potential
 File 149:TGG Health&Wellness DB(SM) 1976-2004/Sep W1
         (c) 2004 The Gale Group
 File 159: Cancerlit 1975-2002/Oct
         (c) format only 2002 Dialog Corporation
*File 159: Cancerlit is no longer updating.
Please see HELP NEWS159.
 File 164:Allied & Complementary Medicine 1984-2004/Sep
         (c) 2004 BLHCIS
 File 444:New England Journal of Med. 1985-2004/Sep W4
         (c) 2004 Mass. Med. Soc.
 File 467:ExtraMED(tm) 2000/Dec
         (c) 2001 Informania Ltd.
*File 467: F467 no longer updates; see Help News467.
                                                                      7.
     Set Items Description
      --- ---- -------
?s nm23? (s) (protein? or polypeptide? or peptide?)
Processing
Processed 10 of 37 files ...
Processing
Processed 20 of 37 files ...
Completed processing all files
           6959 NM23?
        11635249 PROTEIN?
          583440 POLYPEPTIDE?
         2395895 PEPTIDE?
            4029 NM23? (S) (PROTEIN? OR POLYPEPTIDE? OR PEPTIDE?)
?s s1 (s) (rad or (ras related protein associated with diabetes))
           4029 S1
           63724 RAD
              0 RAS RELATED PROTEIN ASSOCIATED WITH DIABETES
             35 S1 (S) (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH
     S2
                 DIABETES))
```

```
diabetes))
            4029 S1
           63724 RAD
              0 RAS RELATED PROTEIN ASSOCIATED WITH DIABETES
      S4
              37 S1 AND (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH
                  DIABETES))
?rd
...completed examining records
     S5
              10 RD (unique items)
?s s5 not s3
                S5
              10
               8 S3
              2 S5 NOT S3
     S6
?show rilds;ds;t/3,k/all
>>>Invalid SHOW option: RILDS
Set
        Items
               Description
S1
         4029
               NM23? (S) (PROTEIN? OR POLYPEPTIDE? OR PEPTIDE?)
S2
           35
               S1 (S) (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH DIABET-
            ES))
S3
            8
              RD (unique items)
S4
              S1 AND (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH DIABET-
            ES))
S5
           10
              RD (unique items)
              S5 NOT S3
           2
>>>KWIC option is not available in file(s): 399
```

```
File
         5:Biosis Previews(R) 1969-2004/Sep W4
         (c) 2004 BIOSIS
         6:NTIS 1964-2004/Sep W4
  File
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
         8:Ei Compendex(R) 1970-2004/Sep W3
  File
         (c) 2004 Elsevier Eng. Info. Inc.
        34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W4
  File
         (c) 2004 Inst for Sci Info
       65:Inside Conferences 1993-2004/Sep W4
         (c) 2004 BLDSC all rts. reserv.
       71:ELSEVIER BIOBASE 1994-2004/Sep W3
         (c) 2004 Elsevier Science B.V.
       73:EMBASE 1974-2004/Sep W4
  File
         (c) 2004 Elsevier Science B.V.
  File
       94:JICST-EPlus 1985-2004/Aug W5
         (c) 2004 Japan Science and Tech Corp (JST)
       98:General Sci Abs/Full-Text 1984-2004/Aug
  File
         (c) 2004 The HW Wilson Co.
  File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Aug
         (c) 2004 The HW Wilson Co.
  File 135: NewsRx Weekly Reports 1995-2004/Sep W4
         (c) 2004 NewsRx
*File 135: New newsletters are now added. See Help News135 for the
complete list of newsletters.
  File 143:Biol. & Agric. Index 1983-2004/Aug
         (c) 2004 The HW Wilson Co
  File 144: Pascal 1973-2004/Sep W3
         (c) 2004 INIST/CNRS
  File 155:MEDLINE(R) 1951-2004/Sep W4
         (c) format only 2004 The Dialog Corp.
*File 155: Medline has been reloaded. Accession numbers
have changed. Please see HELP NEWS 154 for details.
  File 172: EMBASE Alert 2004/Sep W3
         (c) 2004 Elsevier Science B.V.
  File 266:FEDRIP 2004/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
  File 315: ChemEng & Biotec Abs 1970-2004/Sep
         (c) 2004 DECHEMA
  File 357: Derwent Biotech Res. _1982-2004/Sep W4
         (c) 2004 Thomson Derwent & ISI
  File 358: Current BioTech Abs 1983-2004/Sep
         (c) 2004 DECHEMA
  File 369:New Scientist 1994-2004/Sep W3
         (c) 2004 Reed Business Information Ltd.
  File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
*File 370: This file is closed (no updates). Use File 47 for more current
information.
  File 399:CA SEARCH(R) 1967-2004/UD=14114
         (c) 2004 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
  File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
        40:Enviroline(R) 1975-2004/Aug
        50:CAB Abstracts 1972-2004/Aug
         (c) 2004 CAB International
  File 103:Energy SciTec 1974-2004/Aug B2
         (c) 2004 Contains copyrighted material
*File 103: For access restrictions see Help Restrict.
  File 156:ToxFile 1965-2004/Sep W4
         (c) format only 2004 The Dialog Corporation
*File 156: ToxFile now reloaded with 2004 MeSH.
Enter Help News156 for more information.
  File 162:Global Health 1983-2004/Aug
         (c) 2004 CAB International
  File 305:Analytical Abstracts 1980-2004/Sep W4
```

```
(c) 2004 Royal Soc Chemistry
*file 305: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
  File 35:Dissertation Abs Online 1861-2004/Aug
         (c) 2004 ProQuest Info&Learning
        48:SPORTDiscus 1962-2004/Sep
 File
         (c) 2004 Sport Information Resource Centre
 File 91:MANTIS(TM) 1880-2004/Sep
         2001 (c) Action Potential
  File 149:TGG Health&Wellness DB(SM) 1976-2004/Sep W1
         (c) 2004 The Gale Group
  File 159: Cancerlit 1975-2002/Oct
         (c) format only 2002 Dialog Corporation
*File 159: Cancerlit is no longer updating.
Please see HELP NEWS159.
  File 164:Allied & Complementary Medicine 1984-2004/Sep
         (c) 2004 BLHCIS
  File 444: New England Journal of Med. 1985-2004/Sep W4
         (c) 2004 Mass. Med. Soc.
  File 467:ExtraMED(tm) 2000/Dec
         (c) 2001 Informania Ltd.
*File 467: F467 no longer updates; see Help News467.
      Set Items Description
?s nm23? (s) (protein? or polypeptide? or peptide?)
Processing
Processed 10 of 37 files ...
Processing
Processed 20 of 37 files ...
Completed processing all files
            6959 NM23?
        11635249 PROTEIN?
          583440 POLYPEPTIDE?
         2395895 PEPTIDE?
            4029 NM23? (S) (PROTEIN? OR POLYPEPTIDE? OR PEPTIDE?)
?s sl (s) (rad or (ras related protein associated with diabetes))
           4029 S1
63724 RAD
              O RAS RELATED PROTEIN ASSOCIATED WITH DIABETES
              35 S1 (S) (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH
      S2
                  DIABETES))
?rd
...completed examining records
         8 RD (unique items)
      S3
?show files;ds;t/3,k/all
       5:Biosis Previews(R) 1969-2004/Sep W4
File
         (c) 2004 BIOSIS
File
       6:NTIS 1964-2004/Sep W4
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File
       8:Ei Compendex(R) 1970-2004/Sep W3
         (c) 2004 Elsevier Eng. Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W4
         (c) 2004 Inst for Sci Info
File 65: Inside Conferences 1993-2004/Sep W4
         (c) 2004 BLDSC all rts. reserv.
      71:ELSEVIER BIOBASE 1994-2004/Sep W3
File
         (c) 2004 Elsevier Science B.V.
File
      73:EMBASE 1974-2004/Sep W4
         (c) 2004 Elsevier Science B.V.
File
      94:JICST-EPlus 1985-2004/Aug W5
         (c)2004 Japan Science and Tech Corp(JST)
      98:General Sci Abs/Full-Text 1984-2004/Aug
File
         (c) 2004 The HW Wilson Co.
      99: Wilson Appl. Sci & Tech Abs 1983-2004/Aug
         (c) 2004 The HW Wilson Co.
File 135: NewsRx Weekly Reports 1995-2004/Sep W4
```

7.

```
File 143:Biol. & Agric. Index 1983-2004/Aug
         (c) 2004 The HW Wilson Co
File 144: Pascal 1973-2004/Sep W3
         (c) 2004 INIST/CNRS
File 155:MEDLINE(R) 1951-2004/Sep W4
         (c) format only 2004 The Dialog Corp.
File 172:EMBASE Alert 2004/Sep W3
         (c) 2004 Elsevier Science B.V.
File 266:FEDRIP 2004/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
File 315: ChemEng & Biotec Abs 1970-2004/Sep
         (c) 2004 DECHEMA
File 357:Derwent Biotech Res. _1982-2004/Sep W4
         (c) 2004 Thomson Derwent & ISI
File 358: Current BioTech Abs 1983-2004/Sep
          (c) 2004 DECHEMA
File 369: New Scientist 1994-2004/Sep W3
         (c) 2004 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 399:CA SEARCH(R) 1967-2004/UD=14114
         (c) 2004 American Chemical Society
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 40:Enviroline(R) 1975-2004/Aug
File 50:CAB Abstracts 1972-2004/Aug
         (c) 2004 CAB International
File 103: Energy SciTec 1974-2004/Aug B2
         (c) 2004 Contains copyrighted material
File 156:ToxFile 1965-2004/Sep W4
         (c) format only 2004 The Dialog Corporation
File 162:Global Health 1983-2004/Aug
         (c) 2004 CAB International
File 305:Analytical Abstracts 1980-2004/Sep W4
         (c) 2004 Royal Soc Chemistry
File 35:Dissertation Abs Online 1861-2004/Aug
         (c) 2004 ProQuest Info&Learning
File 48:SPORTDiscus 1962-2004/Sep
         (c) 2004 Sport Information Resource Centre
File 91:MANTIS(TM) 1880-2004/Sep
         2001 (c) Action Potential
File 149:TGG Health&Wellness DB(SM) 1976-2004/Sep W1
         (c) 2004 The Gale Group
File 159: Cancerlit 1975-2002/Oct
         (c) format only 2002 Dialog Corporation
File 164: Allied & Complementary Medicine 1984-2004/Sep
          (c) 2004 BLHCIS
File 444: New England Journal of Med. 1985-2004/Sep W4
         (c) 2004 Mass. Med. Soc.
File 467:ExtraMED(tm) 2000/Dec
         (c) 2001 Informania Ltd.
Set
        Items
                Description
         4029
                NM23? (S) (PROTEIN? OR POLYPEPTIDE? OR PEPTIDE?)
S1
                S1 (S) (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH DIABET-
S2
           35
             ES))
            8
                RD (unique items)
>>>KWIC option is not available in file(s): 399
             (Item 1 from file: 5)
 3/3, K/1
DIALOG(R) File 5: Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.
             BIOSIS NO.: 200300004266
```

Menin, the multiple endocrine neoplasia type 1 gene product, exhibits GTP-hydrolyzing activity in the presence of the tumor metastasis

(c) 2004 NewsRx

suppressor nm23.

AUTHOR: Yaguchi Hiroko; Ohkura Naganari (Reprint); Tsukada Toshihiko;

Yamaguchi Ken

AUTHOR ADDRESS: Growth Factor Division, National Cancer Center Research Institute, 5-1-1 Tsukiji, Chuo-ku, Tokyo, 104-0045, Japan**Japan

AUTHOR E-MAIL ADDRESS: nohkura@gan2.ncc.go.jp

JOURNAL: Journal of Biological Chemistry 277 (41): p38197-38204 October

11, 2002 2002 MEDIUM: print ISSN: 0021-9258

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: MEN1, the gene responsible for multiple endocrine neoplasia type 1, is a tumor suppressor gene that encodes a *protein* called menin, of unknown function with no homology to any known *protein*. Here we demonstrate that menin interacts with a putative tumor metastasis suppressor *nm23H1*/nucleoside diphosphate (NDP) kinase A in mammalian cells. Given the roles of *nm23* as a multi-functional *protein*, we searched for the possible function of menin. Menin has no effect on the known activities of *nm23*; that is, nucleoside diphosphate kinase, *protein* kinase, or GTPase-activating *protein* for Ras-related GTPase *Rad*. However, we found that menin hydrolyzes GTP to GDP efficiently in the presence of *nm23*, whereas *nm23* or menin alone shows little or no detectable GTPase activity. Furthermore, menin contains sequence motifs similar to those found in all known GTPases or GTP-binding *proteins* and shows low affinity but specific binding to GTP/GDP. These results suggest that menin is an atypical GTPase stimulated by *nm23*.

3/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013093839 BIOSIS NO.: 200100265678

Tumor metastasis suppressor nm23H1 regulates Rac1 GTPase by interaction with Tiam1

AUTHOR: Otsuki Yoshiro; Tanaka Masamitsu; Yoshii Shigeto; Kawazoe Nobuko; Nakaya Kazuyasu; Sugimura Haruhiko (Reprint)

AUTHOR ADDRESS: First Department of Pathology, Hamamatsu University School of Medicine, 3600 Handa-cho, Hamamatsu, 431-3192, Japan**Japan JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 98 (8): p4385-4390 April 10, 2001 2001

MEDIUM: print ISSN: 0027-8424

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: The putative tumor metastasis suppressor *nm23H1* was originally identified in murine melanomas by subtraction cloning. It displays nucleoside diphosphate kinase activity and regulates cellular events, including growth and development. Recently *nm23H1* has been reported to also act as a GTPase-activating *protein* of the Ras-related GTPase *Rad* . We attempted to determine whether *nm23H1* also regulates Rho-family GTPases. Although we were unable to detect a direct association between *nm23H1* and Rho-family GTPases, *nm23H1* was shown to be associated with a Racl-specific nucleotide exchange factor, Tiaml, by interaction with its amino-terminal region in extracts from the cells expressing exogenous Tiaml and from native tissue. Overexpression of *nm23H1* inhibited the Tiaml-induced production of GTP-bound Rac1 and activation of c-Jun kinase. On the other hand, forced overexpression of the wild type, but not the kinase-inactivated mutant of *nm23H1*, converted the GDP-bound forms of Racl, Cdc42, and RhoA to their GTP-bound forms in vitro by its nucleoside diphosphate kinase activity, but *nm23H1* alone apparently did not produce the GTP-bound form of these GTPases in vivo. These results

suggest that *nm23H1* negatively regulates Tiam1 and inhibits Rac1 activation in vivo. Moreover, adhesion-stimulated membrane ruffles of Rat1 fibroblasts were reduced by overexpression of *nm23H1*. Based on these observations, we concluded that we had identified a function of *nm23H1* as a regulator of Rac1 and that it may be related to the effect of *nm23H1* as a tumor metastasis suppressor.

3/3,K/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013012947 BIOSIS NO.: 200100184786

Regulation of growth and tumorigenicity of breast cancer cells by the low molecular weight GTPase Rad and Nm23

AUTHOR: Tseng Yu-Hua; Vicent David; Zhu Jianhua; Niu Yulian; Adeyinka Adewale; Moyers Julie S; Watson Peter H; Kahn C Ronald (Reprint) AUTHOR ADDRESS: Joslin Diabetes Center, One Joslin Place, Boston, MA, 02215, USA**USA

JOURNAL: Cancer Research 61 (5): p2071-2079 March 1, 2001 2001

MEDIUM: print ISSN: 0008-5472

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: *Rad* is the prototypic member of a family of novel Ras-related GTPases that is normally expressed in heart, skeletal muscle, and lung and that has been shown to exhibit a novel form of bi-directional interaction with the *nm23* metastasis suppressor. In the present study, we have investigated the expression of *Rad* in normal and neoplastic breast tissues by Western blot and immunohistochemistry and the functional effect of altered *Rad* expression in breast cancer cell lines. We found that, although *Rad* is frequently expressed in normal breast tissue (23/30 *Rad*+ve), expression is usually lost in adjacent invasive carcinoma (8/30 *Rad*+ve; P < 0.0001). However, where *Rad* expression persists in a small proportion of tumors, it is associated with higher grade, larger size, and extensive axillary nodal involvement (n = 48; P = 0.035, P = 0.016, P = 0.022, respectively). Furthermore,*Rad* is also highly expressed in a breast cancer cell line with high tumorigenic and metastatic potential (MDA-MB231). To further examine the role of *Rad* in breast cancer, we stably transfected a *Rad*-ve breast cancer cell line (MDA-MB435). We observed an increase in growth and marked increased colony formation in soft agar in vitro (P < 0.05) and an increase in tumor growth rate in nude mice (P < 0.05). Moreover, coexpression of *nm23* with wild-type *Rad* inhibited the effect of *Rad* on growth of these cells in culture and markedly inhibited tumor growth in vivo. Additional transfection studies with mutated *Rad* cDNAs revealed that the growth-promoting effects of *Rad* appeared to be mediated through its NH2- and COOH-terminal regions, rather than its GTPase domain, and might involve acceleration of cell cycle transition. These findings suggest that *Rad* may act as an oncogenic *protein* in breast tissues and demonstrate a potential mechanism by which interaction between *Rad* and *nm23* may regulate growth and tumorigenicity of breast cancer.

3/3,K/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0012369749 BIOSIS NO.: 200000088062

Interaction of the Ras-related *protein* associated with diabetes *Rad* and the putative tumor metastasis suppressor *NM23* provides a novel mechanism of GTPase regulation

AUTHOR: Zhu Jianhua; Tseng Yu-Hua; Kantor Jason D; Rhodes Christopher J; Zetter Bruce R; Moyers Julie S; Kahn C Ronald (Reprint)

AUTHOR ADDRESS: Research Division, Joslin Diabetes Center, Department of Medicine, Harvard Medical School, One Joslin Place, Boston, MA, 02215, USA**USA

JOURNAL: Proceedings of the National Academy of Sciences of the United

States of America 96 (26): p14911-14918 Dec. 21, 1999 1999

MEDIUM: print ISSN: 0027-8424

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

Interaction of the Ras-related *protein* associated with diabetes *Rad* and the putative tumor metastasis suppressor *NM23* provides a novel mechanism of GTPase regulation

ABSTRACT: *Rad* is the prototypic member of a new class of Ras-related GTPases. Purification of the GTPase-activating *protein* (GAP) for *Rad* revealed *nm23*, a putative tumor metastasis suppressor and a development gene in Drosophila. Antibodies against *nm23* depleted *Rad*-GAP activity from human skeletal muscle cytosol, and bacterially expressed *nm23* reconstituted the activity. The GAP activity of *nm23* was specific for *Rad*, was absent with the S105N putative dominant negative mutant of *Rad*, and was reduced with mutations of *nm23*. In the presence of ATP, GDPcntdotRad was also reconverted to GTPcntdotRad by the nucleoside diphosphate (NDP) kinase activity of *nm23*. Simultaneously, *Rad* regulated *nm23* by enhancing its NDP kinase activity and decreasing its autophosphorylation. Melanoma cells transfected with wild-type *Rad*, but not the S105N-*Rad*, showed enhanced DNA synthesis in response to serum; this effect was lost with coexpression of *nm23*. Thus, the interaction of *nm23* and *Rad* provides a potential novel mechanism for bidirectional, bimolecular regulation in which *nm23* stimulates both GTP hydrolysis and GTP loading of *Rad* whereas *Rad* regulates activity of *nm23*. This interaction may play important roles in the effects of *Rad* on qlucose metabolism and the effects of *nm23* on tumor metastasis and developmental regulation.

3/3,K/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0011609263 BIOSIS NO.: 199800403510

Effects of phosphorylation on function of the Rad GTPase

AUTHOR: Moyers Julie S; Zhu Jianhua; Kahn C Ronald (Reprint)

AUTHOR ADDRESS: Res. Div., Joslin Diabetes Center, One Joslin Place,

Boston, MA 02215, USA**USA

JOURNAL: Biochemical Journal 333 (3): p609-614 Aug. 1, 1998 1998

MEDIUM: print ISSN: 0264-6021

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: *Rad*, Gem and Kir possess unique structural features in comparison with other Ras-like GTPases, including a C-terminal 31-residue extension that lacks typical prenylation motifs. We have recently shown that *Rad* and Gem bind calmodulin in a Ca2+-dependent manner via this C-terminal extension, involving residues 278-297 in human *Rad*. This domain also contains several consensus sites for serine phosphorylation, and *Rad* is complexed with calmodulin-dependent *protein* kinase II (CaMKII) in C2C12 cells. Here we show that *Rad* serves as a substrate for phosphorylation by CaMKII, cAMP-dependent *protein* kinase (PKA), *protein* kinase C (PKC) and casein kinase II (CKII) with stoichiometries in vitro of 0.2-1.3 mol of phosphate/mol of *Rad*. By deletion and point mutation analysis we show that phosphorylation by CaMKII and PKA occurs on a single serine residue at position 273, whereas PKC and CKII phosphorylate multiple C-terminal serine residues, including Ser214, Ser257, Ser273, Ser290 and Ser299. Incubation of *Rad* with PKA decreases

GTP binding by 60-70%, but this effect seems to be independent of phosphorylation, as it is observed with the Ser273 fwdarw Ala mutant of *Rad* containing a mutation at the site of PKA phosphorylation. The remainder of the serine kinases have no effect on *Rad* GTP binding, intrinsic GTP hydrólysis or GTP hydrolysis stimulated by the putative tumour metastasis suppressor *nm23*. However, phosphorylation of *Rad* by PKC and CKII abolishes the interaction of *Rad* with calmodulin. These findings suggest that the binding of *Rad* to calmodulin, as well as its ability to bind GTP, might be regulated by the activation of several serine kinases.

3/3,K/6 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2004 Thomson Derwent & ISI. All rts. reserv.

0230112 DBR Accession No.: 99-00213 PATENT

New method of modulating the activity of nm23 in individuals at risk from proliferative disorders - Rad mutant protein, antisense nucleic acid and antibody, used for diabetes, obesity, wound healing, tissue replacement and cancer therapy, gene therapy and drug screening

AUTHOR: Kahn C R; Zhu J

CORPORATE SOURCE: Boston, MA, USA.

PATENT ASSIGNEE: Joslin-Diabetes-Center 1998

PATENT NUMBER: WO 9844088 PATENT DATE: 981008 WPI ACCESSION NO.:

98-542695 (9846)

PRIORITY APPLIC. NO.: US 43983 APPLIC. DATE: 970403 NATIONAL APPLIC. NO.: WO 98US6521 APPLIC. DATE: 980402

LANGUAGE: English

ABSTRACT: A new method of modulating the activity of *nm23* in individuals at risk from proliferative disorders involves modulating the level of *Rad* activity. Activity of *nm23* in a cell or subject may be increased by administering a *Rad* *protein* or DNA encoding a *Rad* *protein*, and the level can be decreased by adding antisense nucleic acid which decreases *Rad* expression, by administering an anti-*Rad* antibody or a DNA sequence encoding the antibody, or by administering a *Rad* mutant or DNA encoding a *Rad* mutant. The new method may be used to treat diabetes, obesity, neuron or muscle cell development disorders, wound healing and tissue replacement, or various cancers...

... whether a subject is at risk of developing e.g. cancer, or for evaluating the ability of a test compound to modulate the interaction between *Rad* and *nm23* *proteins*. (32pp)

DESCRIPTORS: human *nm23*, *Rad* *protein* interaction modulation, *Rad* mutant *protein*, antisense nucleic acid, antibody, appl. diabetes, obesity, neuron, muscle cell development disorder, wound healing, tissue replacement, cancer susceptibility det., therapy, gene therapy, drug screening vulnerary...

3/3,K/7 (Item 1 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2004 American Chemical Society. All rts. reserv.

129270613 CA: 129(21)270613v PATENT

Modulating the Rad-nm23 interaction in subjects at risk for proliferative disorders

INVENTOR (AUTHOR): Kahn, C. Ronald; Zhu, Jinhua

LOCATION: USA

ASSIGNEE: Joslin Diabetes Center, Inc.

PATENT: PCT International; WO 9844088 A2 DATE: 19981008 APPLICATION: WO 98US6521 (19980402) *US 43983 (19970403)

PAGES: 32 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-000/A

DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CN; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT;

RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

3/3,K/8 (Item 1 from file: 149)
DIALOG(R)File 149:TGG Health&Wellness DB(SM)
(c) 2004 The Gale Group. All rts. reserv.

01312500 SUPPLIER NUMBER: 11576824 (USE FORMAT 7 OR 9 FOR FULL TEXT) Activation of a small GTP-binding protein by nucleoside diphosphate kinase. Randazzo, Paul A.; Northup, John K.; Kahn, Richard A. Science, v254, n5033, p850(4) Nov 8,

1991
PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English
RECORD TYPE: Fulltext TARGET AUDIENCE: Academic
WORD COUNT: 2468 LINE COUNT: 00236

... Contamination of ARF, G protein, and [beta] [gamma] preparations is common.

[10] P. A. Randazzo and R. A. Kahn, unpublished data.

[11] To prepare recombinant *nm23*-H1, *nm23*-H2, and *nm23*-1, the coding regions were amplified by the polymerase chain reaction (PCR) with cDNAs (supplied by P. Steeg) as template and synthetic oligonucleotides that incorporate...

...fragments were inserted into pET3C (supplied by W. Studier) at Nde I and Bam HI sites. BL21 (DE3) cells, were transfected with the plasmid and *protein* expression was induced with IPTG. The bacteria were lysed by sonication and after centrifugation (45 min at 100,000g), ammonium sulfate (40%) was added to...

...was suspended in and dialyzed against 20 mM tris (pH 7.4) containing NaCl (0.9%). The dialysate was fractionated on hydroxylapatite (5 ml, Bio**Rad** HTP), equilibrated in a buffer (TED) containing 20 mM tris (pH 7.4), 1 mM EDTA, 1 mM DTT. The column was washed with TED4.3, and 23 mg of *nm23**-H1, *nm23*-H2, and *nm23*-1, respectively, consistent with their level of expression in BL21 (DE3) cells. Specific activities determined with deoxythymidine 5'-diphosphate as a substrate and the coupled...

...Parks, Methods Enzymol. 51, 376 (1978)] were 482 U/mg, 740 U/mg, 724 U/mg, and 257 U/mg at 20[degrees]C for *nm23*-H1, *nm23*-H2, *nm23*-1, and Sigma enzyme N-2635 (bovine liver), respectively. The *proteins* were estimated to be 90% pure by staining with Coomassie blue.

[12] To determine kinetic parameters, [[alpha].-sup.32]P]GDP or [[alpha].-sup.32...

```
?rd
...completed examining records
             10 RD (unique items)
      S5
?s s5 not s3
              10 S5
               8 S3
               2 S5 NOT S3
      S6
?show rilds;ds;t/3,k/all
>>>Invalid SHOW option: RILDS
Set
        Items
                Description
                NM23? (S) (PROTEIN? OR POLYPEPTIDE? OR PEPTIDE?)
S1
         4029
S2
           35
                S1 (S) (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH DIABET-
            ES))
            8
              RD (unique items)
53
S4
           37
                S1 AND (RAD OR (RAS RELATED PROTEIN ASSOCIATED WITH DIABET-
             ES))
S5
           10
               RD (unique items)
                S5 NOT S3
            2
>>>KWIC option is not available in file(s): 399
            (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.
            BIOSIS NO.: 200200412105
```

Integrin cytoplasmic domain-associated *protein* lalpha (ICAP-lalpha)
 interacts directly with the metastasis suppressor *nm23*-H2, and both
 proteins are targeted to newly formed cell adhesion sites upon integrin
 engagement

AUTHOR: Fournier Henri-Noel; Dupe-Manet Sandra; Bouvard Daniel; Lacombe Marie-Lise; Marie Christiane; Block Marc R (Reprint); Albiges-Rizo Corinne

AUTHOR ADDRESS: Laboratoire d'Etude de la Differenciation et de l'Adherence Cellulaires, Faculte de Medecine de Grenoble, Institut Albert Bonniot, Domaine de la Merci, 38706, La Tronche Cedex, France**France JOURNAL: Journal of Biological Chemistry 277 (23): p20895-20902 June 7, 2002 2002

MEDIUM: print ISSN: 0021-9258

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

Integrin cytoplasmic domain-associated *protein* lalpha (ICAP-lalpha)
 interacts directly with the metastasis suppressor *nm23*-H2, and both
 proteins are targeted to newly formed cell adhesion sites upon integrin
 engagement

ABSTRACT: Cell adhesion-dependent signaling implicates cytoplasmic *proteins* interacting with the intracellular tails of integrins. Among those, the integrin cytoplasmic domain-associated *protein* lalpha (ICAP-lalpha) has been shown to interact specifically with the beta1 integrin cytoplasmic domain. Although it is likely that this *protein* plays an important role in controlling cell adhesion and migration, little is known about its actual function. To search for potential ICAP-lalpha-binding *proteins*, we used a yeast two-hybrid screen and identified the human metastatic suppressor *protein* *nm23*-H2 as a new partner of ICAP-lalpha. This direct interaction was confirmed in vitro, using purified recombinant ICAP-lalpha and *nm23*-H2, and by co-immunoprecipitation from CHO cell lysates over-expressing ICAP-lalpha. The physiological relevance of this interaction is provided by confocal fluorescence microscopy, which shows that ICAP-lalpha and *nm23*-H2 are co-localized in lamellipodia during the early stages of cell spreading. These adhesion sites are enriched in occupied betal integrins and precede the formation of focal adhesions devoid of ICAP-lalpha and *nm23*-H2, indicating the dynamic segregation of components of matrix adhesions.

This peripheral staining of ICAP-lalpha and *nm23*-H2 is only observed in cells spreading on fibronectin and collagen and is absent in cells spreading on poly-L-lysine, vitronectin, or laminin. This is consistent with the fact that targeting of both ICAP-lalpha and *nm23*-H2 to the cell periphery is dependent on betal integrin engagement rather than being a consequence of cell adhesion. This finding represents the first evidence that the tumor suppressor *nm23*-H2 could act on betal integrin-mediated cell adhesion by interacting with one of the integrin partners, ICAP-lalpha.

DESCRIPTORS:

?

CHEMICALS & BIOCHEMICALS: ...Bio-*Rad* Laboratories...

6/3,K/2 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

11570553 Genuine Article#: 668WU No. References: 83

Title: Nucleoside diphosphate kinases in mammalian signal transduction systems: Recent development and perspective

Author(s): Kimura N (REPRINT) ; Shimada N; Ishijima Y; Fukuda M; Takagi Y; Ishikawa N

Corporate Source: Tokyo Metropolitan Inst Gerontol, Cellular Signaling Res Grp, Itabashi Ku,35-2 Sakaecho/Tokyo 1730015//Japan/ (REPRINT); Tokyo Metropolitan Inst Gerontol, Cellular Signaling Res Grp, Itabashi Ku, Tokyo 1730015//Japan/

Journal: JOURNAL OF BIOENERGETICS AND BIOMEMBRANES, 2003, V35, N1 (FEB), P

ISSN: 0145-479X Publication date: 20030200

Publisher: KLUWER ACADEMIC/PLENUM PUBL, 233 SPRING ST, NEW YORK, NY 10013 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: their protein structural information and its significance was extended further on the basis of recent findings obtained with small molecular weight G proteins such as *Rad*, menin, and Rac. Meanwhile, observations suggesting involvement of NDP kinases in the regulation of cell growth and differentiation led to the realization that NDP kinases

...Identifiers--NERVE GROWTH-FACTOR; METASTASIS SUPPRESSOR *NM23*; PC12
PHEOCHROMOCYTOMA CELLS; ENDOCRINE NEOPLASIA TYPE-1; GTP-BINDING
PROTEIN(GS); TUMOR-METASTASIS; NEURONAL DIFFERENTIATION;
CRYSTAL-STRUCTURE; ADENYLATE-CYCLASE; ADP-RIBOSYLATION